

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**APPLICANT: STEGER, Carsten****EXAMINER: SERIAL****NO.:****ART UNIT:****FILED:****FOR: SYSTEM AND METHOD FOR OBJECT RECOGNITION****STATEMENT OF FILING BY EXPRESS MAIL 37 C.F.R. § 1.10**

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INFORMATION DISCLOSURE STATEMENT

**Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231**

Sir:

This Information Disclosure Statement (hereinafter sometimes referred to as "IDS") is submitted in accordance with 37 C.F.R. §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. §1.97, as it is filed:

(Check one of the boxes opposite A-D)

☒ A. within three months of the filing date of the above-identified national application or within three months of the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in the above-identified international application.

☐ B. before the mailing date of a first office action on the merits.

☐ C. after the times set forth in (A) and (B) above, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a notice of allowance under 37 C.F.R. §1.311, and the necessary statement pursuant to 37 C.F.R. §1.97(e) appears below (see box "i") or the necessary fee is enclosed (see box "ii" below).

(check one of the boxes opposite "i" or "ii" below)

☐ i. (check the applicable statement)

☐ I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

☐ I, the undersigned, hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

☐ ii. A check for the fee set forth in 37 C.F.R. §1.17(p), presently believed to be \$ 240.00, is enclosed.

☐ D. after the times set forth in (A), (B), and (C) above, but before payment of the issue fee, since Applicant petitions for the consideration of this Information Disclosure Statement by a petition enclosed herewith pursuant to 37 C.F.R. §1.97(d)(2), a check for the petition fee set forth in 37 C.F.R. §1.17(i), presently believed to be \$ 130.00, is enclosed, and the necessary statement pursuant to 37 C.F.R. §1.97(e) appears below:

(check the applicable statement)

☐ I, the undersigned, hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

☐ I, the undersigned, hereby state that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge

after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

2. In accordance with 37 C.F.R. §1.98(a)(1), this IDS includes a list on form PTO-1449 of all patents, publications, or other information submitted for consideration by the Office, incorporated into this IDS as an attachment hereto. Pursuant to 37 C.F.R. §1.98(b): (i) each U.S. patent listed is identified by patentee, patent number, and issue date; (ii) each foreign patent or published foreign patent application is identified by the country or patent office which issued the patent or published the application, an appropriate document number, and the publication date indicated on the patent or published application; and (iii) each publication is identified by author (if any), title, relevant pages of the publication, date, and place of publication. A legible copy of each document listed is attached and incorporated into this IDS, except that no copy of any U.S. patent application is included pursuant to 37 C.F.R. §1.98(a)(2)(iii) and except as explained below.

(check the boxes opposite A and/or B and fill in blanks, if appropriate)

☐ A. Document(s) _____ is (are) substantively cumulative to document(s) _____, and, in accordance with 37 C.F.R. §1.98(c), only a copy of each of the latter document(s) is (are) attached.

☐ B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon for an earlier filing date under 35 U.S.C. §120:

[insert serial numbers and filing dates of prior applications]

These documents are identified by attaching hereto copies of the forms PTO-892 and/or PTO-1449 from the files of the prior application(s) and Applicant requests that they be considered and made of record in this application in accordance with 37 C.F.R. §1.98(d). Pursuant to 37 C.F.R. §1.98(d), copies of these documents need not be provided with this IDS.

(check paragraphs 3 and/or 4, if applicable)

☐ 3. Document(s) _____ is (are) not in the English language. In accordance with 37 C.F.R. §§1.98(a)(3), 1.98(c), it is stated that:

(check the applicable statement(s))

☐ English translation(s) of the document(s) _____ (or of the pertinent portions thereof) is (are) enclosed and, thus no concise explanation of their relevance is required, (see M.P.E.P., §609, p. 600-92).

☐ English-language equivalent(s) of the document(s) _____ (or of the pertinent portions thereof) which is (are) in fact translation(s) of the document(s) is (are) enclosed.

☐ The attached English-language version of a search report or other action by a foreign patent office in a counterpart foreign application which cites document(s) ____ and which indicates the degree of relevance found by the foreign office is submitted to satisfy the requirement for a concise explanation of the relevance of the document(s), (see M.P.E.P., §609, p. 600-93).

☐ A concise explanation of the relevance of document(s) _____ is set forth as follows:

[insert concise explanation of relevance]

☐ A concise explanation of the relevance of document(s) _____ can be found on page(s) _____ of the specification.

☐ A concise explanation of the relevance of document(s) _____ can be found on the attached sheet.

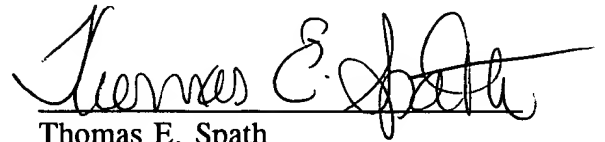
☐ 4. Other information being provided for the Examiner's consideration follows:

[insert other information]

5. In accordance with 37 C.F.R. §§1.97(g), 1.97(h), the filing of this IDS shall not be construed as a representation that a search has been made or as an admission that information cited in this IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b). Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

6. Please charge any deficiency or other fees or credit any refund or overpayment to Deposit Account No. 01-0035.

Respectfully submitted,

A handwritten signature in cursive script, reading "Thomas E. Spath". The signature is written in dark ink and is positioned above the printed name and title.

Thomas E. Spath
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FORM PTO-1449 (MODIFIED)

LIST OF PUBLICATIONS FOR
APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

Atty Docket No: 205,286
 Serial No: Unknown
 Applicant: STEGER, Carsten
 Filing Date:
 Group:

REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS			FILING DATE
EXAMINER	DOCUMENT NO	DATE	NAME	CLASS/SUBCLASS	IF APPROPRIATE	
INITIAL						
	4,972,359	20 NOV 1990	Silver et al.	364,728.05		
	5,550,933	27 AUG 1996	Stetten	382/199		
	5,631,981	20 MAY 1997	Rao	382/278		
	6,005,978	21 DEC 1999	Garakani	382/218		
	6,023,530	08 FEB 2000	Wilson	382/219		

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 09/965236

 09/26/01

FOREIGN PATENT DOCUMENTS						TRANSLATION
EXAMINER	DOCUMENT NO	DATE	COUNTRY	CLASS/SUBCLASS	YES	NO
INITIAL						

OTHER DOCUMENTS				
EXAMINER	REF NO	AUTHOR,	TITLE,	DATE
INITIAL				
	1.	EPO	Office Letter/Search Report	07 MAR 01
	2.	Hashimoto:	High-Speed Template Matching Algorithm Using Information of Contour Points" Systems & Computers in Japan, US, Scripta Technical Journals. New York Vol. 23, No. 9, 1992, pgs. 78-87, XP000334342 ISSN: 0882-1666, Chapters 2,5	
	3.	Cambridge University Press	Numerical Recipes In C: The Art of Scientific Computing (ISSN-521-43108-5)	1988-92
	4.	Shang-Hong Lai & Ming Fang	An accurate and Fast Pattern Localization Algorithm for Automated Visual Inspection; Real-Time Imaging 5, 3-14 (1999)	1999
	5.	Carsten Steger	An Unbiased Detector of Curvilinear Structures	Feb 1998
	6.	Lisa Gottesfeld Brown	A Survey of Image Registration Techniques; Department of Computer Science, Columbia	

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF PUBLICATIONS FOR
 APPLICANT'S INFORMATION
 DISCLOSURE STATEMENT

J1040 U.S. PTO
 09/965236
 09/26/01

OTHER DOCUMENTS

(continued)

EXAMINER INITIAL	REF NO	AUTHOR/TITLE, DATE, PERTINENT PAGES, ETC.	
		University, New York, NY 10027;	DEC 1992
7.	Steven L. Tanimoto	Template Matching in Pyramids; Dept. Computer Science, University of Washington, Seattle, Washington 98195;	11 JUN 80
8.	William J. Rucklidge	Efficiently Locating Objects Using the Hausdorff Distance; Int'l Journal of Computer Vision 24(3), pgs. 251-270	
9.	D.H. Ballard	Generalizing The Hough Transform To Detect arbitrary Shapes; Pattern Recognition	23 SEP 80
10.	Olson, Clark F. & Huttenlocher, Daniel P.	Automatic Target Recognition by Matching Oriented Edge Pixels; IEEE Transaction on Image Processing	JAN 1997
11.	Hartley, Richard & Zisserman, Andrew	Multiple View Geometry in Computer Vision; Cambridge Press	N/A
12.	Canny, John	A Computational Approach to Edge Detection; reprinted from IEEE Transactions on Pattern Analysis and Machine Intelligence.	NOV 1986
13.	Andreas Busch	Fast Recognition of Lines in Digital Images Without User-Supplied Parameters; Institut fur Angewandte Geodasiei	N/A
14.	Bunilla Borgefors	Hierarchical Chamfer Matching: A Parametric Edge Matching Algorithm; Transactions on Analysis and Machine Intelligence, Vol. 10, No. 6	NOV 1988

Examiner

Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.